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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,268	06/25/2003	Eric N. Smith	A02140WO (98670.1WO)	3380

22920 7590 02/22/2005

GARVEY SMITH NEHRBASS & DOODY, LLC
THREE LAKEWAY CENTER
3838 NORTH CAUSEWAY BLVD., SUITE 3290
METAIRIE, LA 70002

EXAMINER

SWINEHART, EDWIN L

ART UNIT	PAPER NUMBER
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3617

DATE MAILED: 02/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/606,268

Applicant(s)

SMITH ET AL.

Examiner

Ed Swinehart

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 November 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 48 and 55 are rejected under 35 U.S.C. 102(b) as being anticipated by Stenning et al. '383.

Stenning et al. teaches a module for transferring natural gas, comprising an interior having a pipeline arranged such that there are alternating straight and bend sections. The pipeline provides support for the layer thereabove, and furthermore the stacked arrangement of modules provides support as well.

Re “multiple sections that include multiple bends”, such fails to define any specific structure and/or arrangement so as to define over Stenning et al., as any portion of pipe may be called a “section”.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 49,53 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stenning '383 in view of Bishop et al.

Stenning fails to disclose pipe supports.

Bishop et al. discloses a pipeline system disposed with a buoyant module (ship), and such pipeline resting on supports.

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide supports for the piping of Stenning to rest upon as taught by Bishop.

Such a combination would have been desirable at the time the invention was made so as to provide secure support allowing expansion and retraction of the piping due to temperature changes.

5. Claims 1-7,10-12,14-19, 20-31,33-48 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cushing et al. in view of Stenning et al. '383.

Cushing et al. discloses the field of the invention, including a heavy lift ship having a weather deck upon which barges containing natural gas are loaded and unloaded. Transference of the cargo to a selected facility is an inherency. Cushing et al. fails to disclose the arrangement of pipeline layers as claimed.

Stenning et al. teaches a module for transferring natural gas, comprising an interior having a pipeline arranged such that there are alternating straight and bend sections. The pipeline provides support for the layer thereabove, and furthermore the stacked arrangement of modules provides support as well.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the interior of the barges of Cushing et al. with supported pipe as taught by Stenning et al.

Such a combination would have been desirable at the time the invention was made so as to provide for an inexpensive storage module.

Re claim 6, the depth to which the ship is immersed to receive its cargo is considered to have been an obvious design consideration, obvious to the ordinary routineer working in the art, and providing no unexpected results.

Certain of the claims containing only apparatus limitations, such claims depending from method claims, have been accorded no weight. For example, claims 33-40 and 47-54.

Claims 15-19 are directed to method of making, which carries no weight in these method of transporting claims.

6. Claims 1,8,9,13 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell in view of Kirby et al.

Campbell teaches an LNG transport module, inherently having internal piping, and provided with wheels for ease in transport. Ship transport of the wheeled module as claimed has not been disclosed.

Kirby et al. teaches a ballastable transport ship, which can be ballasted to permit cargo to be loaded and unloaded directly from pier/land.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to transport the LNG modules of Campbell within a ship as taught by Kirby et al.

Such a combination would have been desirable at the time the invention was made so as to provide for ease in transport of the modules where needed.

Re claims 20-26, such fail to further limit the method of transporting, and have been accorded no weight in the claims.

7. Claims 50-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bishop et al.

The material of construction for the cradles would have been an obvious design consideration to the ordinary routineer working in the art at the time of the invention, providing no unexpected results.

8. Applicant's arguments filed 11/9/2004 have been fully considered but they are not persuasive.

Applicant's arguments re the combinations of references are noted, but such references were in fact combined. Applicant argues the rejections as if the references were singly applied.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

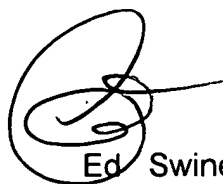
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ed Swinehart whose telephone number is 703-308-2566. The examiner can normally be reached on Monday through Thursday 6:30 am to 2:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samuel Morano can be reached on 703-308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, consisting of a large, stylized 'E' followed by a cursive 'S' and a horizontal line extending to the right.

Ed Swinehart
Primary Examiner
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